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CENTRAL FAX CENTER**FEB 08 2007****FAX TRANSMISSION****DATE:** February 8, 2007**PTO IDENTIFIER:** Application Number 10/750,294-Conf. #9179
Patent Number**Inventor:** John L. Vian et al.**MESSAGE TO:** US Patent and Trademark Office**FAX NUMBER:** (571) 273-8300**FROM:** ROBERT R. RICHARDSON, P.S.

Robert R. Richardson

PHONE: (360) 692-0626**Attorney Dkt. #:** BA1-03-0687 (03-0687)**PAGES (Including Cover Sheet):** 5**CONTENTS:** Transmittal (1 page)
Response to Restriction Requirement (without Traverse) (2 pages)
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PTO/SB/97 (09-04)

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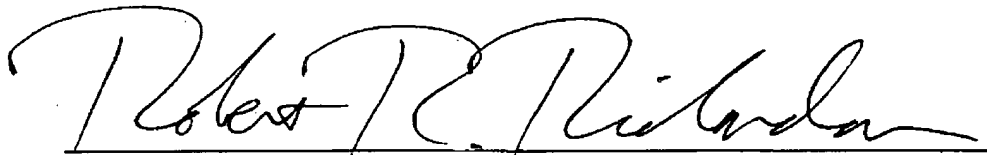
Application No. (if known): 10/750,294

Attorney Docket No.: BA1-03-0687 (03-0687)

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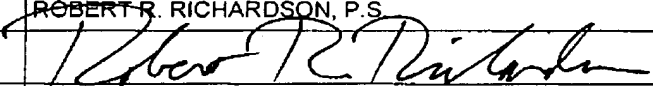
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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	10/750,294-Conf. #9179	
	Filing Date	December 30, 2003	
	First Named Inventor	John L. Vian	
	Art Unit	2856	
	Examiner Name	S. M. Shah	
Total Number of Pages in This Submission	5	Attorney Docket Number	BA1-03-0687 (03-0687)

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Response to Restriction Requirement Fax Cover Sheet Certificate of Transmission
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Firm Name	ROBERT R. RICHARDSON, P.S.		
Signature			
Printed name	Robert R. Richardson		
Date	February 8, 2007	Reg. No.	40,143

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Dated: 2/8/07 Signature: *Robert R. Richardson*
(Robert R. Richardson)

Docket No.: BA1-03-0687 (03-0687)
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
John L. Vian et al.

Application No.: 10/750,294

Confirmation No.: 9179

Filed: December 30, 2003

Art Unit: 2856

For: METHODS AND SYSTEMS FOR
ANALYZING ENGINE UNBALANCE
CONDITIONS

Examiner: S. M. Shah

RESPONSE TO RESTRICTION REQUIREMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the restriction requirement set forth in the Office Action mailed January 8, 2007, Applicant hereby provisionally elects without traverse claims 1-17, 18-31, and 58 of Group I for continued examination. Claims 32-57 are withdrawn without prejudice.

The Examiner has required restriction between:

Group I, claims 1-17 and 58 and 18-31, drawn to a method and a product, respectively, for analyzing an engine unbalance condition including receiving vibrational data from a plurality of locations, inputting the data into an ANNCV, establishing a relationship between the data and the unbalance condition, and outputting information indicating the condition, classified in class 73, subclass 66;

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Group II, claims 32-45, drawn to a system for analyzing an engine unbalance condition including a control component, an input/output device to receive vibrational data, a processor with a first portion to receive data, a second portion to input the data into a mode, a third portion to establish a relationship between the data and the unbalance condition and a fourth portion to output information indicating at least one of the unbalance condition and the quantity/position of corrective engine balance weights needed to achieve desirable vibrational characteristics, classified in class 700, subclass 280;

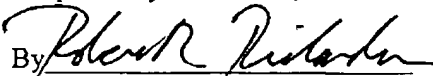
Group III, claims 46-54, drawn to a vehicle including a fuselage, a propulsion system coupled to the fuselage, a monitoring system for analyzing an engine unbalance condition, wherein the monitoring system includes the system defined in claims 32-45, classified in class 700, subclass 280; and

Group IV, Claims 55-57, drawn to a system for analyzing an engine unbalance condition including at least one sensor for collecting vibration sensed data, a processor for receiving, analyzing, and extracting information from the data, a data link, a neural network to receive and analyze the information and to determine/present the status of engine balance, classified in class 700, subclass 279.

Applicant believes no fee is due with this response. However, if a fee is due, please charge our Deposit Account No. 503048, under Order No. BA1-03-0687 (03-0687) from which the undersigned is authorized to draw.

Dated: February 8, 2007

Respectfully submitted,

By 

Robert R. Richardson

Registration No.: 40,143

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